

DRAWINGS

FIG. 1

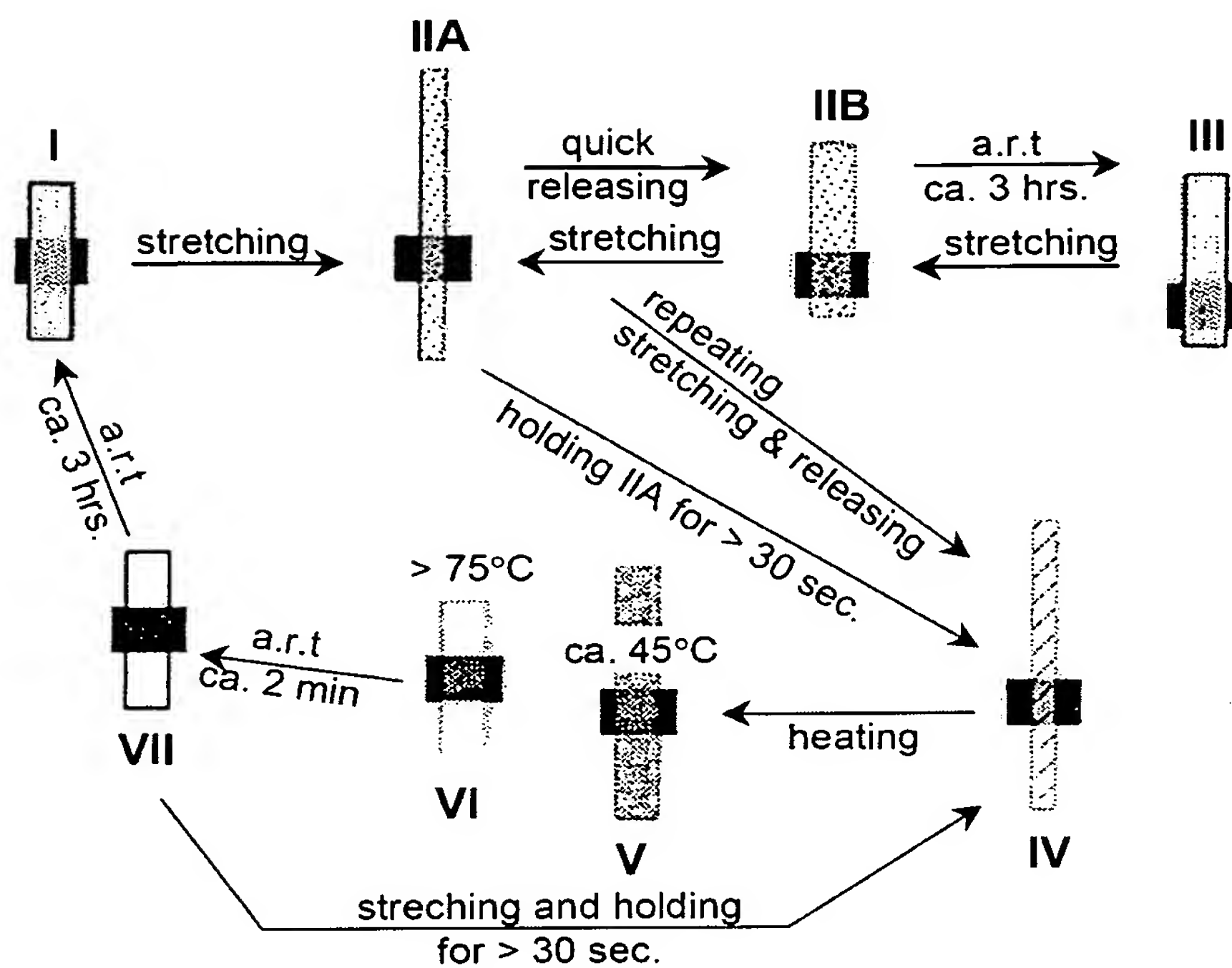
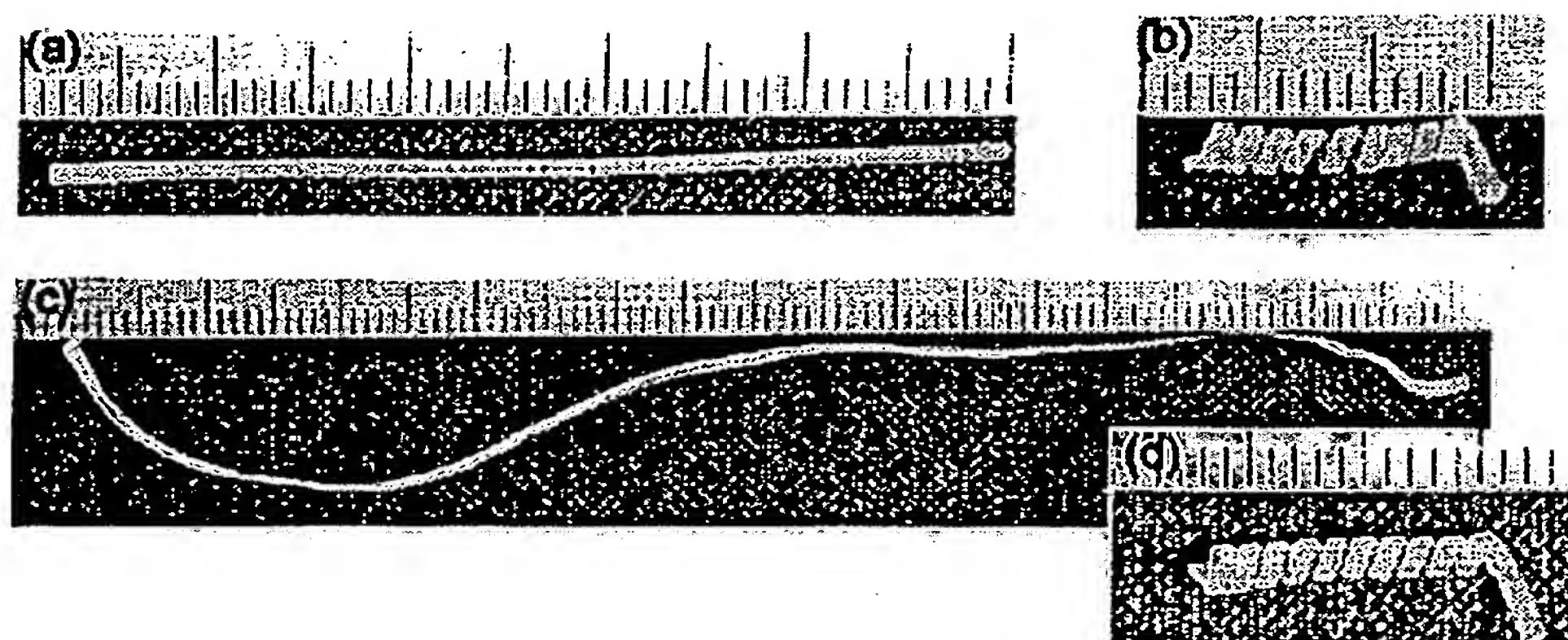


FIG. 2



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FIG. 3

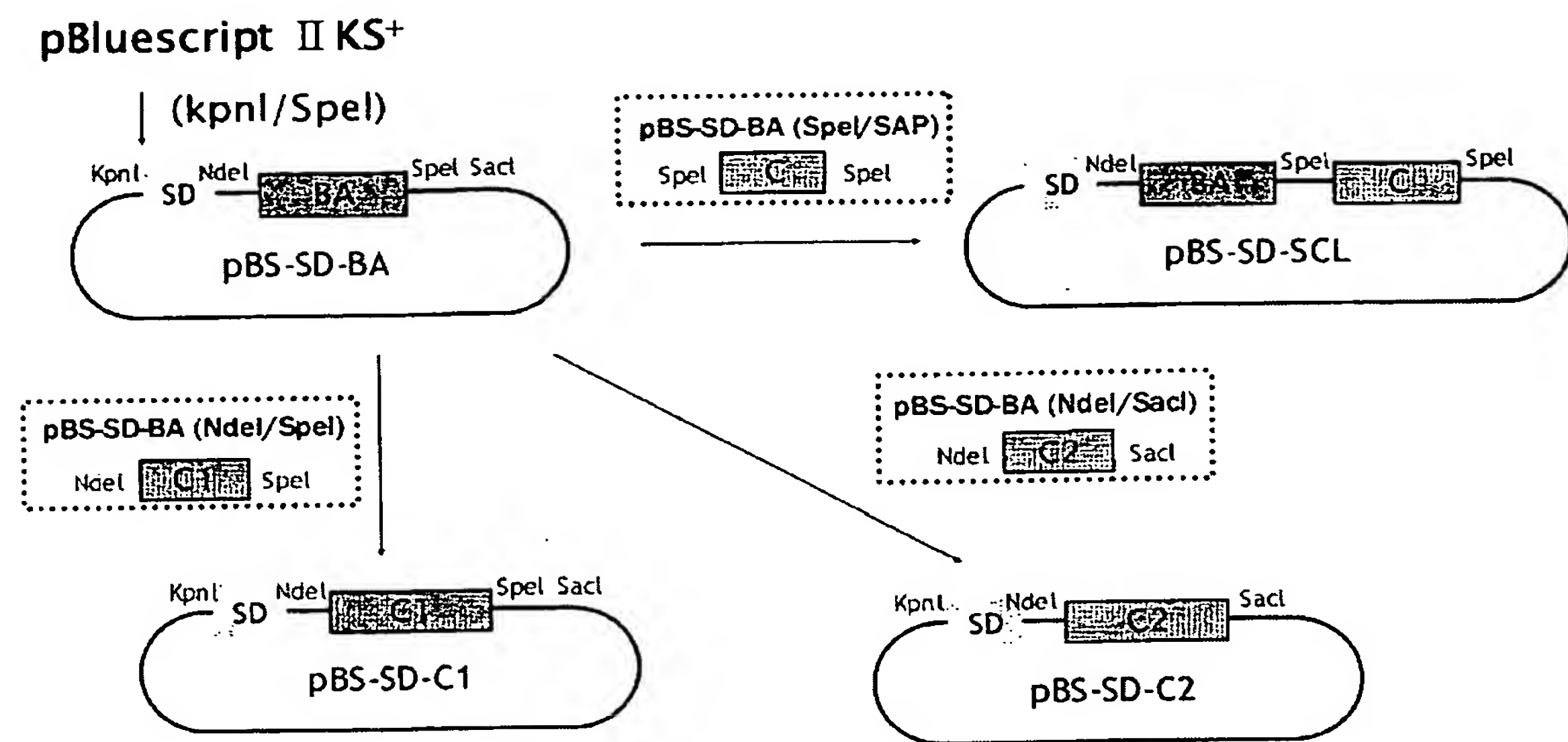
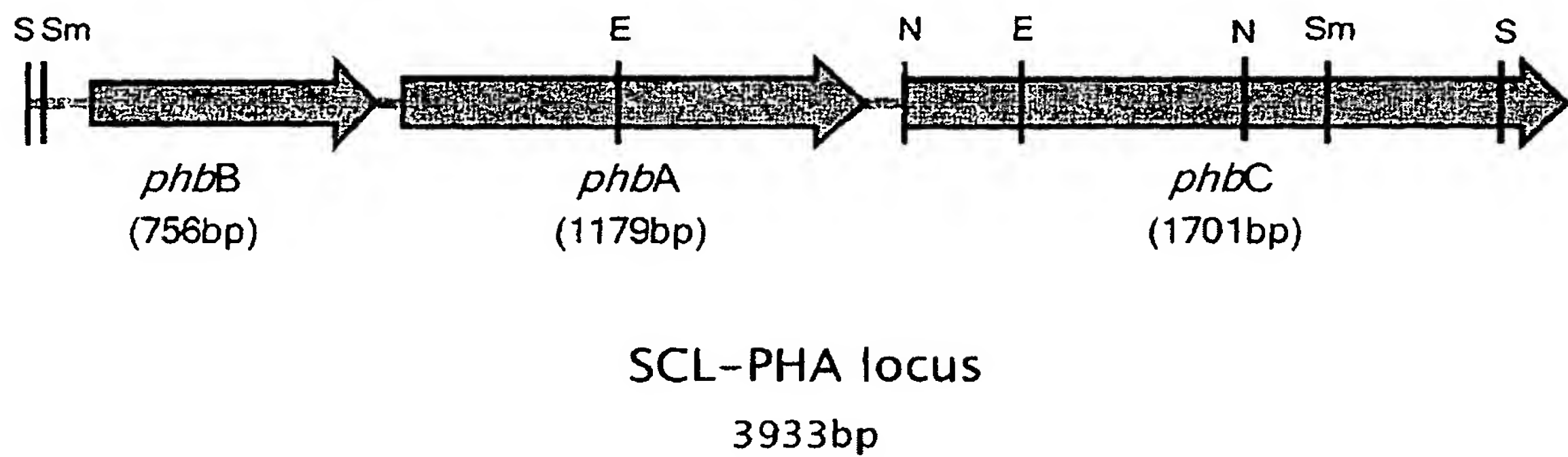


FIG. 4



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phbC locus

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FIG. 6

1921 G W D A G R V N V N G G A I A L G H P I G A S G C R V L V S L L H E M L R R D A
 GGCTGGGATG CTGGCAGGT TAACGTAAAC GGGGGGCCA TGGCCCTGG CCACCCATT GGGCCCTCG ACTGCTCAGC CTGCTGCATG AAATGCTCAG GCGCGAGCG
 K K G L A T L C I G G G Q G V A L A I E R *
 2041 AAAAAGGCC TCGTACCCT GTGTATCGGT GGGGGCCAGG GCGTGGCGT GGCCATCGAG CGCTTAGTGA CGCTTTGGG ACTCTGCGG AGGTGCCCC CTGCACCGC ACCGCCAGC
 phbc →
 2161 TGGCCGTGG GTTACGTCTC GACATGATCG CACCGCGGC GGGCTTTG TTTTCATATT CCTGGAGAG CCATGGACA CCGACACACC TTCTCTACT ACTGTCGCG TCAGCGGCC
 F I A S F V L Q Q L R L Y V A Q N T W F S G H D Q S Q W F D V P V E A L E Q L Q
 2281 TTGATGCCA GCTTGTCTT GCAGCACTG CGTTATACG TGGGCAAA TACTTGTTC AGCGGCAG ACCAAAGCCA GTGTTGAC GTACCTGTG AGCGTTGGA GCAACTGCAG
 A D Y Q Q Q W A E L G Q Q L L S C Q P F A F S D R R F A S G N W S E P L F G S L
 2401 GCGGACTACC AACACAGTG GGGCGAATT GGCAGCAAT TGGTGAAGT CCAGCGTTC GCATTCAEG ATCTTCCTT CGGCAGTGC AACTGAGCG AACCGCTGT CGGTTCCCTG
 A A F Y L L N S G F L L K L L E L L P I D E Q K P R Q R L R Y L I E Q A I A A S
 2521 GCTGCTTCT ACCTGCTGAA TTCCGGTTTC CTGCTGAAC TGTGGAGT TCTCCCATC GATGAGCAGA AGCCCGCCA CGCTTGGT TACTTGATG AGCAAGCAT TGCAGCAAGC
 A P S N F L L S N P D A L Q R L V E T Q G A S L L S G L L H L A S D L Q A G K L
 2641 GCGCAAGTA ACTTCTGCT GAGCAACCTT GATGCCCTG AAGCCCTAGT GGAACCCAG GGGCCAGC TACTAAGTG CTTGTTCAT CTGCCAGTG ACCTGCAGC AGGCAAGTTG
 R Q C D L G D F E V G V N L A T T P G A V V L E T P L F Q L I Q Y S P L S E T Q
 2761 CGCAATGT ACTTGGCGA TTTCGAGTC GGGTGAATC TGGCCACAC CCCTGTGTC GTGTACTG AACCCCTCT GTTCCAGTG ATCCAGTATT CGCCGCTCAG CGAAAGCAA
 Y Q R P I F M V P P W I N K Y Y I L D L G P E N S L I R H L L E R G H Q V F L N
 2881 TACCAGCGC CGATATTCAT GGTCCGCCC TGGATCAACA AGTACTACAT CCTGACCTC GGGCCGAAA ACTCTTAAT CCGTCATCTA CTGGAGGAG GCCATCAAGT TTTCTGATG
 S W R N F T Q E Q A D I T W E Q I I Q D G V I S A L R T T R A I S G E R H L N C
 3001 TCTTGGCCA ACTTCACTCA GGAACAGGC GATACACCT GGGAGGAGAT CATCCAGGAC GGAAGTATCA GGGCCCTGG CACTACCGG GCAATCGTG GTGAGCGCA CCTGAAGTGT
 L G F C I G G T M L S C A L A V L A A R G D Q D I A S L S L F A T F L D Y L D T
 3121 TTGGTTTCT GCATCGGGG CACCATGTG AGTTGGCTC TAGCGGTCT GGCAGCGGT GGCAGCCAG ACATTGCGG CCTGAGTCTA TTGCCACTT TTCTGACTA CCTTGATACC
 G P I S V F V D E Q L V A Y R E R T I G G H G G K C G L F R G E D M G N T F S L
 3241 GGGCGATCA GGTCTTCT CGATGAGCA CTGGTGGCTT ACCGTAGCG CACCATCGT GGCATGCTG GCAATGTGG CCTGTTCCG GGTGAGGACA TGGGCAATAC CTCTCCCTG
 L R P N E L W W N Y N V D K Y L K G Q K P L A L G L L F W N N D S T N L P G P L
 3361 CTGGGGCCA ACGAGCTTG GTGAAGTAC AAGTAGACA AATATCTCAA GGGCGAGAAG CCGCTGGCTC TGGTCTACT GTTCTGGAAC AAGCAGACA CCAATCTGCC GGGGCCCTG
 Y C W Y L R H T Y L Q N D L K S G E L D L C G V K L D L R A I D A P A Y I L G T
 3481 TATTGCTGT ATCTGGCCA CACCTACCTG CAGAAGACC TCAATCGGG GAGTTGGAT CTGTGGGGG TCAAGTTGGA TCTGGGGG ATAGACGAC CAGCTACAT CTGGAAGC
 H D D H I V P W R S A Y A S T E L L G G P K R F V L G A S G H I A G V I N P P D
 3601 CATGAGACC ACATGTTGC CTGGGAAGC GCCTATGCCA GCACGGAAT GCTGGAGGT CCAAGCGCT TTGTCTCGG CGCTCCGGC CACATCGCG GGTGATCAA CCGGCCAGAT
 R N K R H Y W V N E H I A P V A D D W L Q G A Q Q H S G S W W G D W F A W L T G
 3721 AGCAACAAG GCCATTACT GGTCAATGAA CACATAGCG CGGTAGTGA CGACTGGCTG CAGGAGCTC AGCAGATTG CCGAGTTGG TGGGTGACT GGTTCGCTG GTTACCGCG
 Y A G P R K P A I T M L G S A E Y P P L E H A P G R Y V K L *
 3841 TATGCCGGC CACGCAAGC TGGCATCACT ATGCTGGCA GTGCCAGTA CCCCCTGCTT GAACATGCG CAGGACCTTA TGTGAAGCTA TGA